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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/833,145	04/11/2001		Koichi Tamura	S004-4277	1619
7	7590	04/23/2004		EXAMINER	
ADAMS & V	VILKS		ABRAMS, NEIL		
31st Floor 50 Broadway				ART UNIT	PAPER NUMBER
New York, N	Y 10004			2839	
				DATE MAILED: 04/23/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)					
		09/833	3,145	TAMURA ET AL.					
Office Action Summary		Exami	ner	Art Unit					
	,	Neil A	orams	2839					
Period fo	The MAILING DATE of this comn	nunication appears on	the cover sheet with	the correspondence add	ress				
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOR MAILING DATE OF THIS COMMInsions of time may be available under the provis SIX (6) MONTHS from the mailing date of this or period for reply specified above is less than thir operiod for reply is specified above, the maximular to reply within the set or extended period for reply received by the Office later than three moned patent term adjustment. See 37 CFR 1.704(I	JNICATION. ions of 37 CFR 1.136(a). In no ommunication. ty (30) days, a reply within the m statutory period will apply an eply will, by statute, cause the ths after the mailing date of thi	o event, however, may a reply statutory minimum of thirty (3 d will expire SIX (6) MONTH application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this con DONED (35 U.S.C. § 133).	nmunication.				
Status									
1)[2]	Responsive to communication(s)	filed on 322	-04						
2a) <u></u>	This action is FINAL .	2b)⊠ This action i							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6 ½ 7) □	Claim(s) 1,5 is/are pending in 4a) Of the above claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to claim(s) are subject to reserved.	s/are withdrawn from ー3 , 5 ー2 l	·						
Applicat	ion Papers								
10)	The specification is objected to by The drawing(s) filed on is/a Applicant may not request that any of Replacement drawing sheet(s) including the oath or declaration is objected.	are: a) accepted or accepted o	s) be held in abeyance quired if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFI					
Priority (under 35 U.S.C. § 119								
12)□ a)	Acknowledgment is made of a cla All b) Some * c) None of the prious Certified copies of the prious Certified copies of the prious Copies of the certified copies application from the Internation See the attached detailed Office a	f: rity documents have t rity documents have t ies of the priority docu ational Bureau (PCT l	peen received. peen received in App uments have been re Rule 17.2(a)).	elication No ceived in this National S	Stage				
Attachmer	nt(s) ce of References Cited (PTO-892)			nmary (PTO-413)					
2) Noting	ce of Draftsperson's Patent Drawing Reviermation Disclosure Statement(s) (PTO-144 er No(s)/Mail Date		Paper No(s)/I	Mail Date rmal Patent Application (PTO-	-152)				

NA

Abstract is unclear, line 4 after "wire" – or outer conductive layer – should be added. The second sentence could be deleted and – when the high voltage cable is not in use, a connecting sheath or cove is placed over the cable exposed portion and includes a conductor to electrically join the cable core to the shielding wire to prevent build-up of static charge on the core. – added in its place.

New abstract on separate sheet is required.

Note that feature 23 is typically referred to as a layer or shield rather than as a wire -.

The drawings are objected to under 37 GER 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claims 1, 7 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claims 1, 7, 13, etc, first and second housings one of which includes a connector attachable to a fixing screw must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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New fig. required in next response. The features could be schematically shown in a new fig. 2A with cable 21-23 joined to one housing and screw 24 and the cable end aligned with a connector on the other housing.

Sheath 1 would be omitted in such figure and the new fig. should be noted in spec. page 6.

Claims 13, 17, 18 and 1-12, 14-16, 19, 20, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (APA) in view of Cronin, Wallo and Lombard.

For claim 13 APA (spec. pages 1, 2) discloses a X-ray system with first and second housings to be joined by a coaxial high voltage cable APA does not disclose connecting means for conductively joining the cable core and shield when the cable is not in use.

Cronin figs. 1, 2, 3 discloses a coaxial cable with connecting means 22, 10 for covering the core and joining it to the cable shield. Wallo discloses a coaxial system with core 12, insulator 13, shielding shell (wire) 14 and shunt (connecting means) 29.

only the Lombard type sheath or cover 10 on the Cronin type cable (fig. 1) to

Lombard discloses a shorting plug 10, figs. 2, 6, 7 that covers a conductive core and joins it to an outer shield (wire), and is readily modifiable for coaxial connector use.

With Cronin used for primary suggestion it would have been obvious to use any such means in APA to prevent static buildup which may cause damage to electronic devices such as pcbs that would be present in X-ray machines. Claim 17, Wallo spiral spring applied.

Claim 18, Lombard conical fringers 36 and Wallo conical spring are applied.

For claims 1-12, 14-16, 19, 20, 21, the same references are applied but using

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interconnect 28 to 22 (22a) and with Lombard bayonet pins 22 which are used to join his connector both to apparatus and to the cover 10.

For claim 11, note Lombard disclosure of threaded ring use, col. 3.

Claims 7-11, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cronin in view of Lombard.

Cronin fig. 1 discloses a cable with core 28, shield 22a, 22 and which could be used for high voltage. Cronin lacks a sheath or cover for use in electrically connecting the core to the shield when the cable is not in use. Lombard at figs. 2, 6, 9 discloses such a sheath or cover joined to a cable end connector 12 by the same means (pin 22) as would be used to join connector 12 to an electrical apparatus. It would have been obvious to form Cronin, fig. 1 device with omission of part 10 and use of an add on sheath or cover like that of Lombard. This would enable shorting by use of an easily replaceable part. For claim 11, obvious to form Cronin fig. 1 with screw means in view of Cronin fig. 7 system and Lombard threaded ring disclosure and to adapt the shunt cover to such feature. This would only be an alternative to boyonet use. Also note Cronin, col. 1, lines 40-50 tie in with replaceable shunt devices of which Lombard shows one example.

Applicant's arguments filed with the amendment and pertinent to above rejections have been fully considered but they are not persuasive.

The Cronin, Wallo and Lombard teachings are seen to be applicable to coaxial acable connectors of various uses including those of APA type X-ray machines.

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Term shielding wire is seen to be readable on outer shells like that of Lombard at 14 and on cable sheath 22a of Cronin.

The following is an examiner's statement of reasons for allowance: claim 22 "lead" feature in context of other limitations is not suggested by prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Neil Abrams at telephone number (571)272-2089.

NEIL ABRAMS
EYAMINER (
ADY UNIT 322